MPLHOXDO | MPLHEXDO - DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (BRASS CHROME PLATED) | 20 m3 SERIES | HIGH PRESSURE RANGE | DUAL STAGE



This manifold is used in gas supply systems for pure, inert, flammable, oxidising gases and gas mixtures. It is not usable for corrosive and / or toxic gases and their mixtures.



Type MPLH0XD**000**00 Without HP Valve
& LP Valve
0 Without Specials

TECHNICAL SPECIFICATION:

- > Manifold for one gas cylinder or bundle
- > Regulator and Valves Hastelloy/Elgiloy diaphragm tighting system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > Valves designed and approved in accordance with relevant sections of DIN 10297:2015
- > Regulator designed and approved regarding ISO 7291
- > Relief valve in delivery pressure side
- > Available with shut-off valve at outlet, safety valve at outlet check valve at inlet
- > Electrostatic chargeability test
 - Fulfills requirements according to DIN 80079-36, IEC TS 60079-32-1 and German TRGS 727
 - Usable in EX- areas zones 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC

SPECIAL FEATURES OF MANIFOLD:

- > Splitted plates of manifold
 - Seperated mounting of ground plate
 - · Easy mounting of manifold to ground plate and fix with one screw only
- > Front plate cutout for in-field gauge replacement



Type MPLHOXD**00U**00 Without HP Valve
& LP Valve
U **Specials**Check Valve &
Safety Valve



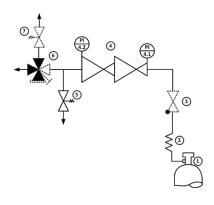
Type MPLHOXD**0SU**OS LP Shut-off Valve

U **Specials**Check Valve &

Safety Valve

·					
-20 °C to +60 °C					
see technical drawing					
<5x10 ⁻⁶ mbar l/s (Helium)					
<1x10-9 mbar I/s (Helium)					
max 5,79 kg					
20 m³/h (N₂) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressure					
300 bar					
1/ 3/ 6/ 10/ 14 bar					

TECHNICAL DATA - REGULATOR					
Filter:	1x for inlet 1x for each outlet				
Material gas wetted parts:					
Regulator body:	Brass chrome plated				
Regulator diaphragm:	Hastelloy				
Regulator seat:	PCTFE (1st stage) PTFE (2 nd stage)				
Relief valve seat:					
MPLH0XD0 Version	FKM				
MPLHEXD0 Version	EPDM				
Regulator poppet:	Brass				
Pressure gauges rates (pressure rates):	1,5 (1)/ 5 (3)/ 10 (6)/ 18 (10)/ 25 (14) bar				
Contact gauges available – please con-	tact us				
Cracking pressure relief valves:	1,5 (1)/ 4,6 (3)/ 9,2 (6)/ 15,4 (10)/ 21,6 (14) bar				
Test in production:	Pressure test with Helium of each item				
	Seat leakage test with Helium of each item				
	Helium leak test of each regulator against atmosphere				
	Test of functionality of each item				

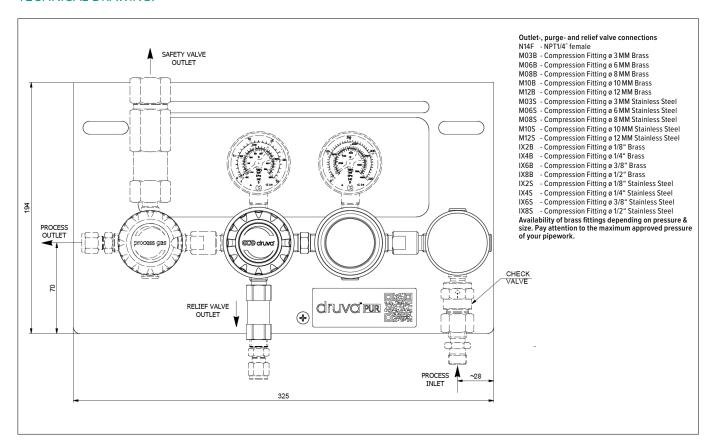


- 1 –Gas cylinder
- 2 -Coil/hose
- 3 -Check valve
- 4 Pressure regulator
- 5 –Relief valve
- 6 Shut-off valve (1xin, 3xout)
- 7 –Safety valve

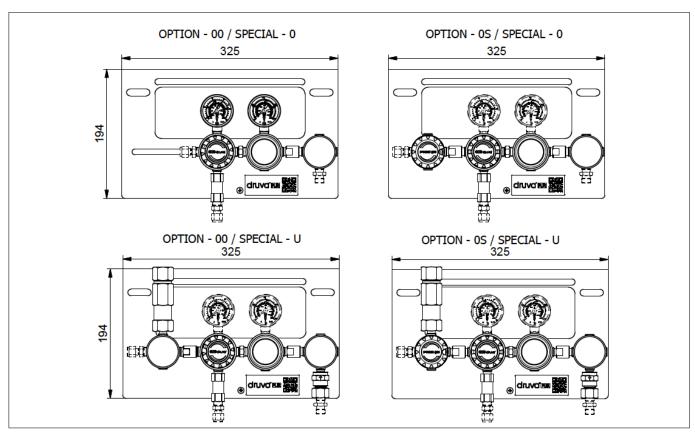
Options & specials are shown as dotted line

	Type test in accordance with DIN 7291					
	Additional life cycle test					
Approvals during development:	Electrostatic chargeability test Fulfill requirements according DIN 80079-36, IEC TS 60079-32-1 and German TRGS 727					
	 Usable in EX-areas zones 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC 					
TECHNICAL DATA - VALVES						
Max. working pressure:	300 bar					
Kv-value:	0,25					
Seat diameter:	5 mm					
Leakage rate seat:	<5x10-6 mbar I/s (Helium)					
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)					
Filter:	1x for each inlet 1x for each outlet					
Material gas wetted parts:						
Valve body:	Brass chrome plated					
Valve diaphragm:	4-Port: 1x Hastelloy, 1x Elgiloy 2-Port: 2x Elgiloy					
Valve seat:	PCTFE					
Valve poppet:	Brass					
	Pressure test with Helium of each item					
Test in production:	Seat leakage test with Helium of each item					
	Helium leak test of each valve against atmosphere					
	Test of functionality of each item					
	Type test in accordance with relevant sections of DIN 10297:2015					
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TECHNICAL DATA - PLATES Ground plate: Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length) Marking on panel: TECHNICAL DATA - SAFETY VALVES (S)	Electrostatic chargeability test Fulfill requirements according DIN 80079-36, IEC TS 60079-32-1 and German TRGS 727 Usable in EX-areas zones 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC Stainless Steel (polished) Option to secure arrestor cable of hoses with hook on ground plate. Grounding bolt Cut outs on top and bottom allows installation 194 x 30 x 250 mm Stainless Steel (polished) Cut outs for easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 mm Product range label QR-Code — link to online product configurator Spring loaded according P.E.D. 2014/68/EU and AD2000 (A2)					
TECHNICAL DATA - PLATES Ground plate: Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length) Marking on panel: TECHNICAL DATA - SAFETY VALVES (S) Opening pressure:	Electrostatic chargeability test Fulfill requirements according DIN 80079-36, IEC TS 60079-32-1 and German TRGS 727 Usable in EX-areas zones 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC Stainless Steel (polished) Option to secure arrestor cable of hoses with hook on ground plate. Grounding bolt Cut outs on top and bottom allows installation 194 x 30 x 250 mm Stainless Steel (polished) Cut outs for easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 mm Product range label QR-Code – link to online product configurator Spring loaded according P.E.D. 2014/68/EU and AD2000 (A2) 1,5/ 4,5/ 9/ 15/ 21 bar					
TECHNICAL DATA - PLATES Ground plate: Dimensions ground plate: (Height × Width × Length) Front plate: Dimensions front plate: (Height × Width × Length) Marking on panel: TECHNICAL DATA - SAFETY VALVES (S) Opening pressure: Leakage rate:	Electrostatic chargeability test Fulfill requirements according DIN 80079-36, IEC TS 60079-32-1 and German TRGS 727 Usable in EX-areas zones 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC Stainless Steel (polished) Option to secure arrestor cable of hoses with hook on ground plate. Grounding bolt Cut outs on top and bottom allows installation 194 x 30 x 250 mm Stainless Steel (polished) Cut outs for easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 mm Product range label QR-Code – link to online product configurator Spring loaded according P.E.D. 2014/68/EU and AD2000 (A2) 1,5/ 4,5/ 9/ 15/ 21 bar < 5 x 10-6 mbar I/s (valve seat) at nominal pressure of receiver					

TECHNICAL DRAWING:

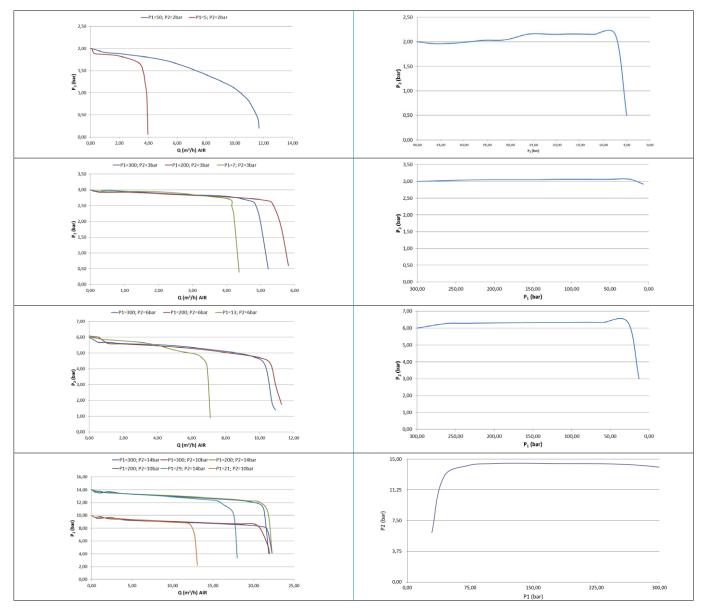


TECHNICAL DRAWING - VARIANTS:



FLOW CURVES:

DYNAMIC EXPANSION CURVES:



ORDER CODE:

Example Manifold | PUR Linie | Brass Chrome Plated | Low Flow | High Pressure Range | Dual Stage

MPLHOX MPLHEX	D	00	С	FX	CX	ВТ	ВТ	N14F	N14F (1/4" NPT female)	N14F (1/4" NPT female)	
	Stages	Options	Specials	Inlet pressure (bar)	Outlet pressure (bar)	Inlet pressure gauge	Outlet pressure gauge	Process inlet connection	Process outlet connection	Purge & relief connection	
	D Dual stage	00 without any options	0 without	F4 60	AX 2	BT Bourdon Tube gauge	BT Bourdon Tube gauge	N14F 1/4" NPT female			
		OS LP Shut-off valve	C Check valve	FX 200	BX 3	Inductiv contact gauge	l2 Inductiv contact gauge l2	M14M Metric 14x1.5 male	possible	possible	
			S Safety valve	GX 300 CX 6 R5 Reed contact gauge R5 R2 Reed contact gauge R2 R2		connections see technical	connections see technical				
			U Check valve + safety valve		D2 10		Inductiv contact gauge		drawing	drawing	
					DX 14						